experiment-6

May 2, 2025

```python
[1]: import pandas as pd
```

```python
[2]: import matplotlib.pyplot as plt
```

```python
[3]: df=pd.read_csv(r"C:\Users\advik\OneDrive\Desktop\experiment6.csv")
```

```python
[4]: df
```

```
[4]:      Show ID    Title     Type      Genre            Director  \
     0     NF001    Show 1   TV Show    Comedy          Bong Joon-ho
     1     NF002    Show 2    Movie     Comedy     Christopher Nolan
     2     NF003    Show 3   TV Show    Romance    Christopher Nolan
     3     NF004    Show 4   TV Show    Fantasy         Bong Joon-ho
     4     NF005    Show 5   TV Show    Comedy          Ava DuVernay
     ..      ...       ...      ...        ...                 ...
     795   NF796  Show 796    Movie      Drama          Ridley Scott
     796   NF797  Show 797   TV Show  Animation   Quentin Tarantino
     797   NF798  Show 798   TV Show  Animation   Quentin Tarantino
     798   NF799  Show 799   TV Show    Fantasy          Ridley Scott
     799   NF800  Show 800    Movie     Sci-Fi          Ridley Scott

                                   Cast       Country  Release Year Rating  \
     0         Natalie Portman, Ewan McGregor         Spain          2001     PG
     1               Gal Gadot, Ben Affleck      Australia          2024      R
     2          Leonardo DiCaprio, Brad Pitt  South Korea          2000  PG-13
     3            Meryl Streep, Tom Hanks          Canada          1991  TV-MA
     4         Ana de Armas, Keanu Reeves            UK          2013  TV-MA
     ..                                  ...           ...           ...    ...
     795    Emma Watson, Daniel Radcliffe        Germany          1996  TV-MA
     796    Florence Pugh, Cillian Murphy          Spain          2012     PG
     797  Chris Evans, Scarlett Johansson             UK          2022      R
     798  Natalie Portman, Ewan McGregor   South Korea          2023      R
     799        Ana de Armas, Keanu Reeves       Germany          2010  NC-17

          Duration  Date Added  View Count  Average Watch Time (Minutes)  \
     0          165  06-10-2022      274935                           132
     1          161  18-09-2023      587810                            93
```

1

```
2    4 Seasons  26-09-2020      133589                        120
3    2 Seasons  26-03-2022      932513                        150
4          109  08-01-2024      332073                         48
..          …           …            …                          …
795  1 Seasons  26-02-2021      129657                        100
796  3 Seasons  01-07-2023      708633                         49
797  2 Seasons  02-11-2022      933060                         92
798          118  14-02-2022      578194                         38
799          83  16-01-2022      328973                         36

     Completion Rate (%)
0                    62.3
1                    40.9
2                    77.1
3                    43.3
4                    75.1
..                      …
795                  64.2
796                  77.5
797                  70.5
798                  43.4
799                  98.8

[800 rows x 14 columns]
```
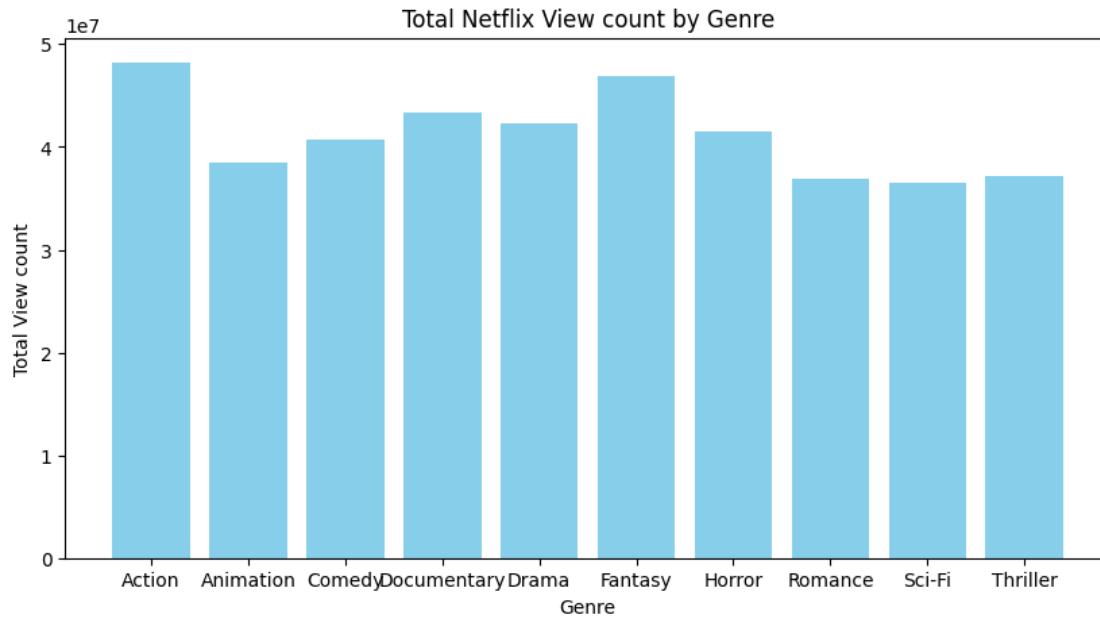
1 Bar plot

```python
[5]: genre_views = df.groupby("Genre")["View Count"].sum()
     plt.figure(figsize=(10,5))
     plt.bar(genre_views.index, genre_views.values, color="skyblue")
     plt.xlabel("Genre")
     plt.ylabel("Total View count")
     plt.title("Total Netflix View count by Genre")
```

```
[5]: Text(0.5, 1.0, 'Total Netflix View count by Genre')
```

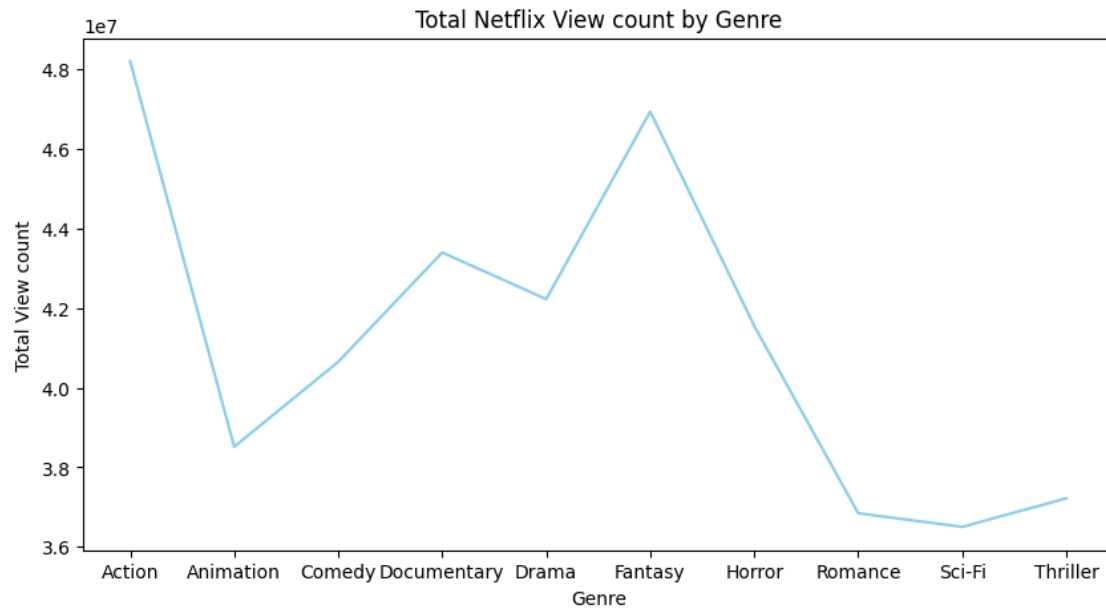Total Netflix View count by Genre

insights-

1. Highest view count is observed in the action genre.
2. lowest view count is observed in the sci fi genre .
3. fantasy genre is the second highest watched genre.

2 Line plot

```
[6]: genre_views = df.groupby("Genre")["View Count"].sum()
     plt.figure(figsize=(10,5))
     plt.plot(genre_views.index, genre_views.values, color="skyblue")
     plt.xlabel("Genre")
     plt.ylabel("Total View count")
     plt.title("Total Netflix View count by Genre")
```

```
[6]: Text(0.5, 1.0, 'Total Netflix View count by Genre')
```

Total Netflix View count by Genre

insights-

1. View count by peaked at the action genre .
2. view count dropped at the sci fi genre .
3. view count is on a steady decline after fantasy genre suggestion the popular genres are fantasy and action.